

CROSS-LINKED SILICONE GELS;
PRODUCTS CONTAINING THE SAME;
AND METHODS OF MANUFACTURE THEREOF

ABSTRACT OF THE DISCLOSURE

A polymerization product of an polyorganohydrosiloxane having a molecular weight of about 3500 to about 4000 and 6-7 Si-H bonds per molecule with a lower alkylene terminated polydimethylsiloxane having a molecular weight of about 20,000 to about 25,000 in the presence of a medium selected from low viscosity silicone oils, hydrocarbon oils typically with the aid of a hydrosilylation catalyst, where the amounts of the siloxanes are chosen such that the reaction product constitutes about 3% to about 15% of the cross-linked polymer and about 97 to about 85% of the reaction medium. The resultant gel is milled in a colloid mill, and if desired, diluted to a concentration of about 3% to about 8% with a diluent selected from the group consisting of low viscosity silicone oil, hydrocarbon oil, lower alkanol, or mixtures thereof. The so produced gel is useable as is or can be formulated into more complex cosmetic formulations having about 65% to about 99.9% of the gel, about 0.1% to about 30% of other non-diluent cosmetic materials (materials that are not low viscosity silicone oil, hydrocarbon oil, or lower alkanol), and up to about 5% lower alkanol.